APMIAC

Airfields, Pavements, and Mobility Information Analysis Center

APMIAC's scope covers all aspects of airfield pavements and mobility technologies, including:

- Airfields
- Asphalt
- Countermobility
- Dust Control
- Expedient Surfacing
- Force Projection
- Geotextiles
- Horizontal Construction
- Mobility
- Nondestructive Testing
- Pavements
- Vehicle Mobility
- Vehicle Simulations
- Vehicle Terrain Interactions

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APMIAC was established within the Geotechnical Laboratory, Engineering Research and Development Center (ERDC) at the Waterways Experiment Station site to provide a focal point for information related to all aspects of airfields, pavements, and vehicle mobility, including analytical modeling, criteria development, laboratory testing, full-scale test tracks, field investigations, modeling and simulations, and operations research.

The center has expertise in the specialized areas of military vehicle performance operating cross-country and on-road, and negotiating dry and wet obstacles in worldwide terrains. It is also a source of expertise on the design, construction, evaluation, maintenance, and rehabilitation of pavements and railroads. This research encompasses engineering disciplines such as engineering mechanics, mathematics and statistics, soil mechanics, soil dynamics, engineering geology, pavement technology, materials properties, and soil structure interactions.

APMIAC has total access to ERDC's information technology, communication, and computer resources, including fiber-optic communications, computer video graphics, automated databases, and optical disk storage and retrieval.

Special Tasks & *Products*

LEEP

LEEP is an airfield Layered Elastic Evaluation Program that uses data from a nondestructive pavement evaluation device such as a Falling Weight Deflectometer and back-calulates the layer moduli for use in evaluating the capacity and rehabilitation requirements

Airfield Pavement Evaluation

This program was developed in accordance with TM 5–826–2 and TM 5–826–3. It evaluates the structure of the pavement and also determines the Pavement Classification Number (PCN).

DRAIN

This hypertext-manual aids in designing subsurface drainage systems for pavements.

Document Locator

This database helps locate information for the design and evaluation of roads, airfields, and railroads.

Fact Sheets

This Windows-based program was developed to allow instant access to the "Pavement Materials and Construction Techniques" fact sheets that are compiled by the Airfields and Pavements Division.